

ABSTRACT OF THE DISCLOSURE

In order to solve the problem in which voltages  
Vsig1 read in units of rows have differences to cause  
vertical shading, thereby degrading image quality, and  
5 the problem in which the dynamic ranges of source  
follower circuits are different in units of rows  
because finite resistances are distributed in the power  
supply lines, a photoelectric conversion apparatus  
includes photoelectric conversion portions placed in a  
10 plurality of rows, an amplification section including a  
load section arranged in units of vertical output lines  
to amplify signal charges accumulated in the  
photoelectric conversion portions placed in a plurality  
of rows, a vertical scanning section for sequentially  
15 scanning signals amplified by the amplification section  
to read the signals onto the vertical output lines, and  
a horizontal scanning section for sequentially scanning  
the signals amplified by the amplification section to  
read the signals onto horizontal output lines, wherein  
20 the load sections are located on a side vertically  
opposite to the direction of signal output from the  
amplification section.

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